

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **SEGUELA et al.**

Docket No.: 641050.90021

Serial No.: **Unassigned**

Filed: **Concurrently herewith**

Int'l appln No.: **PCT/CA98/01016**

Int'l filing date: **29 October 1998**

Title: **DNA ENCODING A HUMAN PROTON-GATED ION CHANNEL  
AND USES THEREOF**

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**PRELIMINARY AMENDMENT**

Box PCT  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In connection with the above-identified application filed herewith, please enter the following preliminary amendment:

**IN THE CLAIMS:**

✓ Please cancel claims 1-15 without prejudice.

Please add the following new claims:

-16. A proton-gated cation channel having the amino acid sequence of SEQ ID NO:1 or a variant of that sequence having at least 85% identity therewith.

17. A channel according to Claim 16 which forms a homopolymeric channel.

18. A channel according to Claim 16 in combination with another cation channel sub-unit which together form a heteropolymeric channel.

19. A channel according to Claim 18 wherein the other cation channel belongs to the degenerin/ENaC channel superfamily.

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